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## ABSTRACT OF THE DISCLOSURE

A metric generation scheme for use in OFDM receivers. In a preferred embodiment, an OFDM receiver of the invention includes a dynamic quantizer to compress a series of bit information values. Also, a 5 channel-state interleaver is provided to de-interleave a series of symboloperations inverse to interleaving data based The de-interleaved symbol-based data is transmitter end. further compressed by another dynamic quantizer to yield a complex signal according to a constellation scheme. metric generator calculates a bit metric of a zero group and a bit metric of a one group for each received bit in which the constellation is divided into the one group and the zero group for each bit location.